PENINSULA COLLEGE

Degree Guide:

Marine Technology, Associate in Applied Science (AAS) Degree

Program
Marine Technology (MTEC)
Degree Type
Professional Technical Degree
Program Coordinator

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Program Description

The Peninsula College Marine Technology AAS degree prepares students for jobs in the marine repair and manufacturing industry as marine service technicians. Developed in collaboration with local employers, classes align with job skills and industry certifications. The program provides students with hands-on experiences through labs, aboard boats, workplace internships, and traditional classroom experiences. The customized training includes marine electronics and repair, marine mechanics and outboard motor repair, aluminum welding, boat fabrication and assembly, marine rigging, plumbing, and pumps, carpentry, cabinetmaking, and finishing for boats, first aid, boat safety, and marine spill response. General education competencies are embedded in the classes.

Program Length: 6 Quarters
Program Code: MMSMTAPT

Career Opportunities and Earnings

There is a growing demand for talented people with marine mechanic, electrical and repair skills; and an increasing number of employers on the Olympic Peninsula are seeking workers with boat fabrication skills. Graduates may find positions with a variety of companies and organizations in the public and private sectors. Potential positions include:

- Boat Mechanic
- Marine Mechanic
- Marine Propulsion Technician
- Marine Service Technician
- Motorboat Mechanic
- Outboard Motor Mechanic

Wages often begin around $24.29 per hour. For current employment and wage estimates, please visit and search for the relevant occupational term: bls.gov/oes.

Essential Functions and Requirements

Most marine technology jobs require standing for extended periods, as well as lifting, bending, climbing stairs, and performing repetitive hand movements to manipulate tools and materials.

Program Outcomes

When this program is completed, the student will be able to:

- Install, repair, and adjust electrical and mechanical equipment of inboard or inboard-outboard boat

engines
- Demonstrate operation and maintenance of shipboard propulsion, hydraulic, electrical, and auxiliary systems
- Carry out the preventative maintenance program and repairs aboard a vessel
- Demonstrate basic DC electrical circuit theory, installation, and testing
- Repair and maintain marine plumbing systems
- Fabricate aluminum and fiberglass boats
- Prepares exterior surfaces of vessels for priming and painting
- Describe marine spill response principles and techniques
- Work effectively as a part of a team

Program Prerequisites

Students entering this program should have good familiarity with computer software and hardware in the Windows or MAC environment. College-level skills in English and math (eligibility for courses numbered 100 or higher) are required before registering for the English, math, or applied math courses in this program. Students may need to complete prerequisite coursework.

Approximate Additional Costs

- Books, supplies and miscellaneous fees (per quarter): **$TBD**
- Tools/Equipment: **$TBD**

Sample Schedule

This sample schedule is provided as a guide for a full-time student starting in fall quarter whose goal is to earn the AAS. The typical student schedule is based on entering the program during the fall quarter, however some programs allow students to enter in the winter or spring as well. Since not all do, please confirm with an advisor whether this program must be started during a specific quarter or not.

First Quarter (Fall)

Catalog #	Course Title	Credits
MTEC 101	Outboard Motor Repair and Maintenance	7
MTEC 102	Marine Electronics	8

Second Quarter (Winter)

Catalog #	Course Title	Credits
AMATH 121	Applied Math for Professional & Tech Programs I	5
MTEC 103	Marine Systems	8
MTEC 106	Marine Spill Response	4

Third Quarter (Spring)

Catalog #	Course Title	Credits
ENGL& 101	English Composition I	5
MTEC 104	Marine Finishing	6
MTEC 105	Fiberglass and Composites	6
MTEC 107	Boat Safety	1

Fourth Quarter (Fall)

Catalog #	Course Title	Credits
WELD 110	Beginning Welding and Metal Fabrication I	15

Fifth Quarter (Winter)

Catalog #	Course Title	Credits
HUMDV 120	Human Relations	3
WELD 120 or Advisor-Approved Skilled Trades Elective		15

Complete 15 credits of advisor-approved Skilled Trades electives. WELD 120 recommended.

Sixth Quarter (Spring)

Catalog #	Course Title	Credits
FA 100	Industrial First Aid	1
MTEC 291	Marine Technology Internship	1-5
WELD 130 or Advisor-Approved Skilled Trades Elective		5-15

Students must complete a minimum of 1 credit of MTEC 291: Marine Technology Internship to complete the internship requirement portion of this degree.

Complete a minimum of 5 credits of advisor-approved Skilled Trades electives. WELD 130 recommended.

	Total Credits	90-100